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Product #149A
Lot #14937A1
Release Date: April 2018

New Quantitation

CERTIFICATE OF ANALYSIS
DIPHTHERIA TOXIN CRM_{197} MUTANT
Lot #14937A1

Contents

Each vial contains 0.25 mg of Diphtheria Toxin CRM_{197} Mutant. When reconstituted with 0.25 mL water, the buffer is 0.01 M sodium phosphate with 5% lactose, pH 7.4. **Handle the product gently; do not vortex.**

Concentration

Protein concentration was determined by absorbance at 280 nm using an extinction coefficient of 0.93 for a 1 mg/ml solution. This value is calculated by ProtParam[1] using an algorithm based on the Edelhoch[2] method with modifications described in Pace et al.[3]

Purity

When examined on SDS-PAGE, this preparation migrates as a single major band with an apparent molecular weight of 58,000 daltons which corresponds to the intact toxin. Densitometric analysis estimates the purity of the product as ≥ 90%.

The endotoxin content, determined using a kinetic chromogenic LAL assay, is < 1 EU/mg.

Packaging/Storage

This preparation is provided as an aseptically lyophilized powder that has been stoppered under vacuum. Prior to reconstitution, it should be stored at 2 – 8°C.

Handling

Good laboratory technique should be employed in the safe handling of this product. Wear appropriate laboratory attire including a lab coat, gloves and safety glasses. Nitrile gloves are recommended for use when handling lyophilized material.

This product is intended for research purposes by qualified personnel. It is not intended for use in humans or as a diagnostic agent. List Biological Laboratories, Inc., is not liable for any damages resulting from the misuse or handling of this product.

FOR RESEARCH PURPOSES ONLY. NOT FOR HUMAN USE

References

1. www.expasy.ch/tools/protparam-doc.html
2. Edelhoch, H. (1967) *Biochemistry*, **6**, 1948-1954.
3. Pace, C.N., Vajdos, F., Fee, L., Grimsley, G. and Gray, T. (1995) *Protein Sci.*. **4**, 2411-2423

QA/QC: Kat Date: 03NOV2020

Made in U.S.A.